

Attorney Docket No.: 105-204-US

PATENT

#4

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: De Maria et al.

Confirmation No: 5078

Serial No.: 10/537,746

Group Art Unit: To be a

Filed: June 6, 2005

Examiner: To be assigned

For: Galactanase Variants

CERTIFICATE OF MAILING UNDER 37 CFR 1.8(a)

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P.O. Box 1450
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Sir:

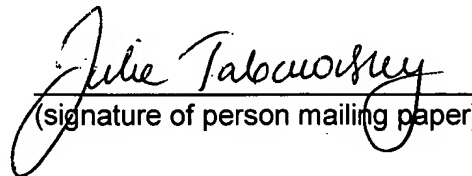
I hereby certify that the attached correspondence comprising:

1. Response to Notice to Comply with Sequence Rules
2. Sequence Listing
3. Disk Containing Sequence Listing
4. Copy of Notice to Comply with Sequence Rules

is being deposited with the United States Postal Service as first class mail in an envelope addressed to the address indicated above on January 4, 2006.

Julie Tabarovsky

(name of person mailing paper)



(signature of person mailing paper)

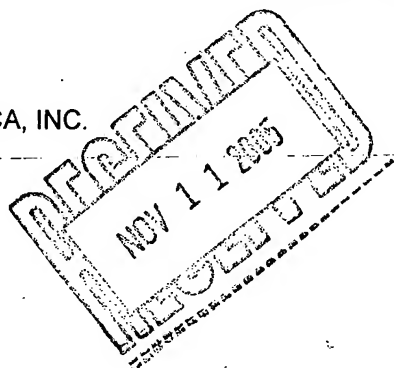


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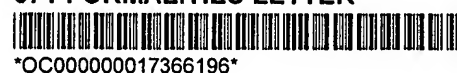
U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/537,746	Leonardo De Maria	10319.204-US

25908
 NOVOZYMES NORTH AMERICA, INC.
 500 FIFTH AVENUE
 SUITE 1600
 NEW YORK, NY 10110



INTERNATIONAL APPLICATION NO.	
PCT/DK03/00851	
I.A. FILING DATE	PRIORITY DATE
12/11/2003	12/20/2002

CONFIRMATION NO. 5078
 371 FORMALITIES LETTER



OC000000017366196

Date Mailed: 11/04/2005

NOTIFICATION TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant is given **TWO MONTHS FROM THE DATE OF THIS NOTICE** within which to file the items indicated below to avoid abandonment. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

SUMMARY OF FEES DUE:

Total additional fees required for this application is **\$-1000** for a Large Entity:

- The paper or compact disc copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 CFR 1.821(e). Applicant must provide a substitute paper or compact disc copy of the "Sequence Listing", **as well as an amendment specifically directing its entry into the application** OR a substitute computer readable form (CRF) copy of the "Sequence Listing". These two items must be the same. Applicant must also provide a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000).

(A previous payment of **\$1000** will be applied to the additional fees indicated above.)

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (571) 272-0951
- For Patent Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/537,746

Source: PCT

Date Processed by STIC: 6/14/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/537,746

DATE: 06/14/2005

TIME: 09:17:55

Input Set : A:\01-SQ Listing-06 Jun 2005.txt

Output Set: N:\CRF4\06142005\J537746.raw

3 <110> APPLICANT: De Maria, Leonardo
 4 Svendsen, Allan
 5 Borchert, Torben Vedel
 6 Christensen, Lars Lehmann Hylling
 7 Larsen, Sine
 8 Ryttergaard, Carsten
 10 <120> TITLE OF INVENTION: Galactanase Variants
 12 <130> FILE REFERENCE: 10319.204-US
 C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/537,746
 C--> 14 <141> CURRENT FILING DATE: 2005-06-06
 14 <160> NUMBER OF SEQ ID NOS: 9
 16 <170> SOFTWARE: PatentIn version 3.3

Does Not Comply
Corrected Diskette Needed

(Pg. 2-3)

ERRORED SEQUENCES

645 <210> SEQ ID NO: 9
 646 <211> LENGTH: 359
 647 <212> TYPE: PRT
 648 <213> ORGANISM: Pseudomonas fluorescens
 651 <220> FEATURE:
 652 <221> NAME/KEY: mat_peptide
 653 <222> LOCATION: (1)..()
 655 <400> SEQUENCE: 9
 657 Asn Thr Gly Val Ala Asp Asn Thr Pro Phe Tyr Val Gly Ala Asp Leu
 658 1 5 10 15
 661 Ser Tyr Val Asn Glu Met Glu Ser Cys Gly Ala Thr Tyr Arg Asp Gln
 662 20 25 30
 665 Gly Lys Lys Val Asp Pro Phe Gln Leu Phe Ala Asp Lys Gly Ala Asp
 666 35 40 45
 669 Leu Val Arg Val Arg Leu Trp His Asn Ala Thr Trp Thr Lys Tyr Ser
 670 50 55 60
 673 Asp Leu Lys Asp Val Ser Lys Thr Leu Lys Arg Ala Lys Asn Ala Gly
 674 65 70 75 80
 677 Met Lys Thr Leu Leu Asp Phe His Tyr Ser Asp Thr Trp Thr Asp Pro
 678 85 90 95
 681 Glu Lys Gln Phe Ile Pro Lys Ala Trp Ala His Ile Thr Asp Thr Lys
 682 100 105 110
 685 Glu Leu Ala Lys Ala Leu Tyr Asp Tyr Thr Thr Asp Thr Leu Ala Ser
 686 115 120 125
 689 Leu Asp Gln Gln Gln Leu Leu Pro Asn Leu Val Gln Val Gly Asn Glu
 690 130 135 140
 693 Thr Asn Ile Glu Ile Leu Gln Ala Glu Asp Thr Leu Val His Gly Ile

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/537,746

DATE: 06/14/2005

TIME: 09:17:55

Input Set : A:\01-SQ Listing-06 Jun 2005.txt

Output Set: N:\CRF4\06142005\J537746.raw

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694 145          150          155          160
697 Pro Asn Trp Gln Arg Asn Ala Thr Leu Leu Asn Ser Gly Val Asn Ala
698          165          170          175
701 Val Arg Asp Tyr Ser Lys Lys Thr Gly Lys Pro Ile Gln Val Val Leu
702          180          185          190
705 His Ile Ala Gln Pro Glu Asn Ala Leu Trp Trp Phe Lys Gln Ala Lys
706          195          200          205
709 Glu Asn Gly Val Ile Asp Tyr Asp Val Ile Gly Leu Ser Tyr Tyr Pro
710          210          215          220
713 Gln Trp Ser Glu Tyr Ser Leu Pro Gln Leu Pro Asp Ala Ile Ala Glu
714 225          230          235          240
717 Leu Gln Asn Thr Tyr His Lys Pro Val Met Ile Val Glu Thr Ala Tyr
718          245          250          255
721 Pro Trp Thr Leu His Asn Phe Asp Gln Ala Gly Asn Val Leu Gly Glu
722          260          265          270
725 Lys Ala Val Gln Pro Glu Phe Pro Ala Ser Pro Arg Gly Gln Leu Thr
726          275          280          285
729 Tyr Leu Leu Thr Leu Thr Gln Leu Val Lys Ser Ala Gly Gly Met Gly
730          290          295          300
733 Val Ile Tyr Trp Glu Pro Ala Trp Val Ser Thr Arg Cys Arg Thr Leu
734 305          310          315          320
737 Trp Gly Lys Gly Ser His Trp Glu Asn Ala Ser Phe Phe Asp Ala Thr
738          325          330          335
741 Arg Lys Asn Asn Ala Leu Pro Ala Phe Leu Phe Phe Lys Ala Asp Tyr
742          340          345          350
745 Gln Ala Ser Ala Gln Ala Glu
746          355

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E--> 752 1

pls delete

10/537,746

Page 3

<210> 5
<211> 21
<212> DNA
<213> synthetic

Invalid
Response

<220>
<221> misc_feature
<223> Primer

<400> 5
catttgaca acggtggag c

← Mandatory,

<213> response 21

has to be either
Artificial,
Unknown or
Genus | Species,

↑
pls see
item # 10
on error
summary sheet.

↑
The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/537,746

DATE: 06/14/2005

TIME: 09:17:56

Input Set : A:\01-SQ Listing-06 Jun 2005.txt

Output Set: N:\CRF4\06142005\J537746.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:752 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:9

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/537,746

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0 A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
(OLD RULES) (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
(NEW RULES) <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES) Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213> Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or
Response scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0 Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
"bug" resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid